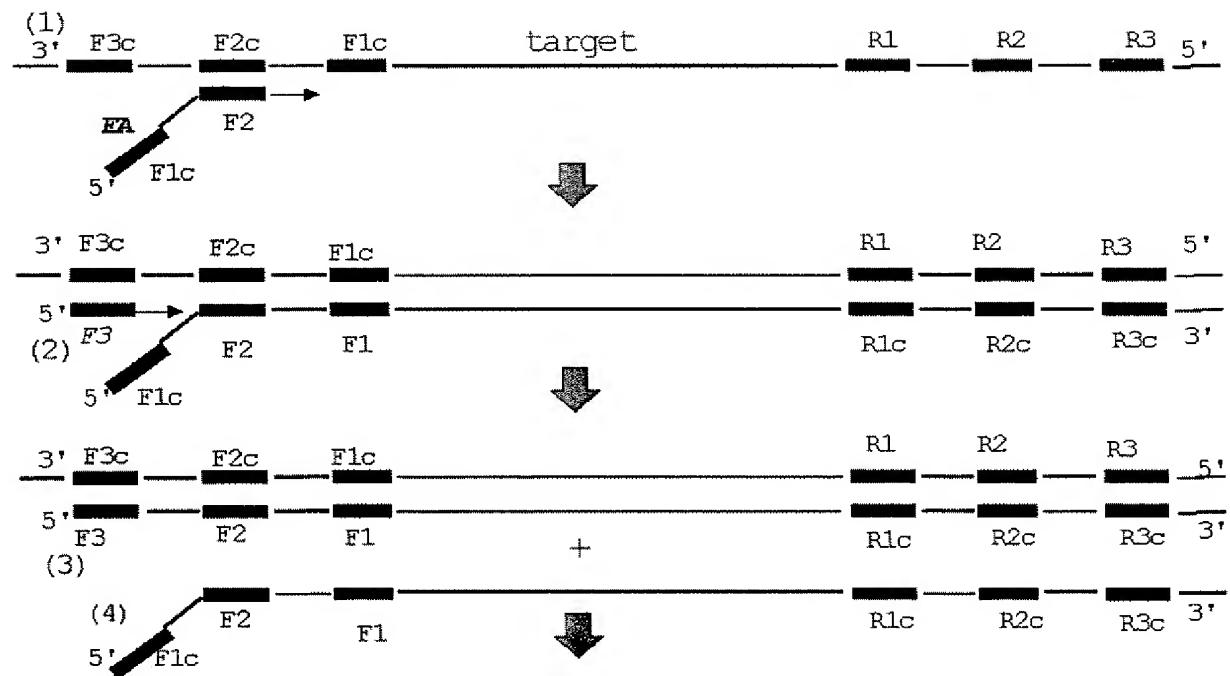


REPLACEMENT SHEET

1 / 1 8

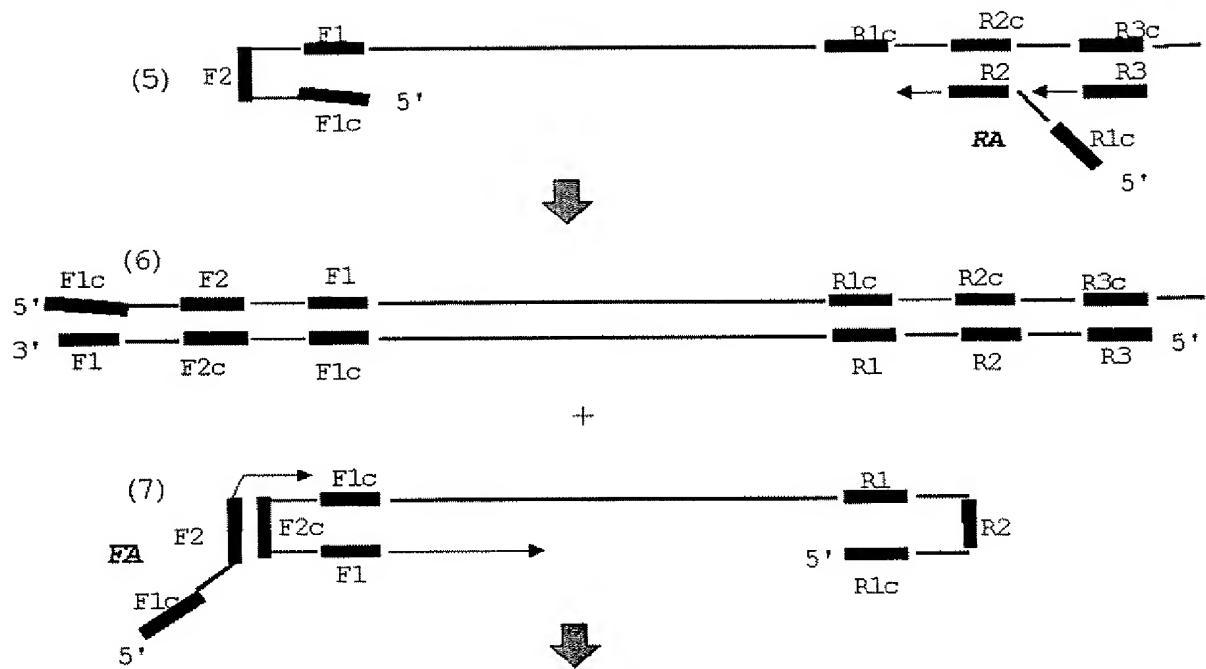
Fig. 1



REPLACEMENT SHEET

2 / 1 8

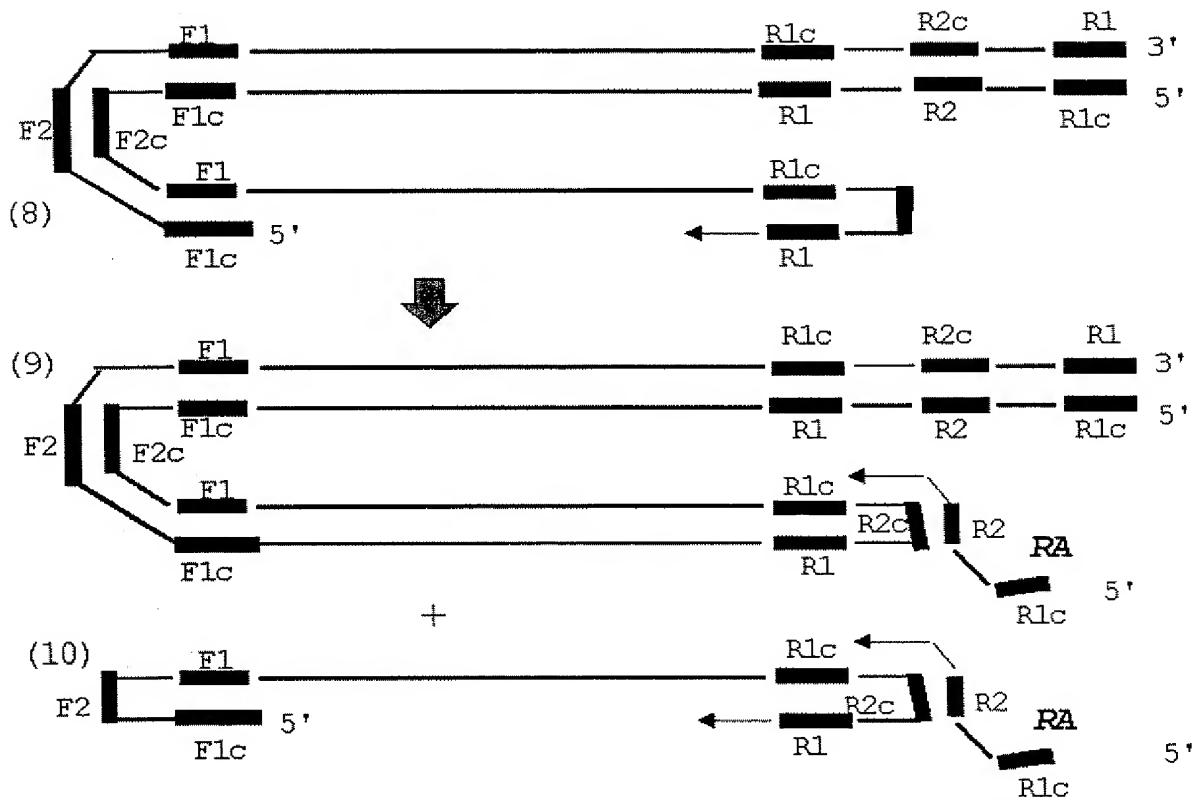
Fig. 2



REPLACEMENT SHEET

3 / 1 8

Fig. 3



REPLACEMENT SHEET

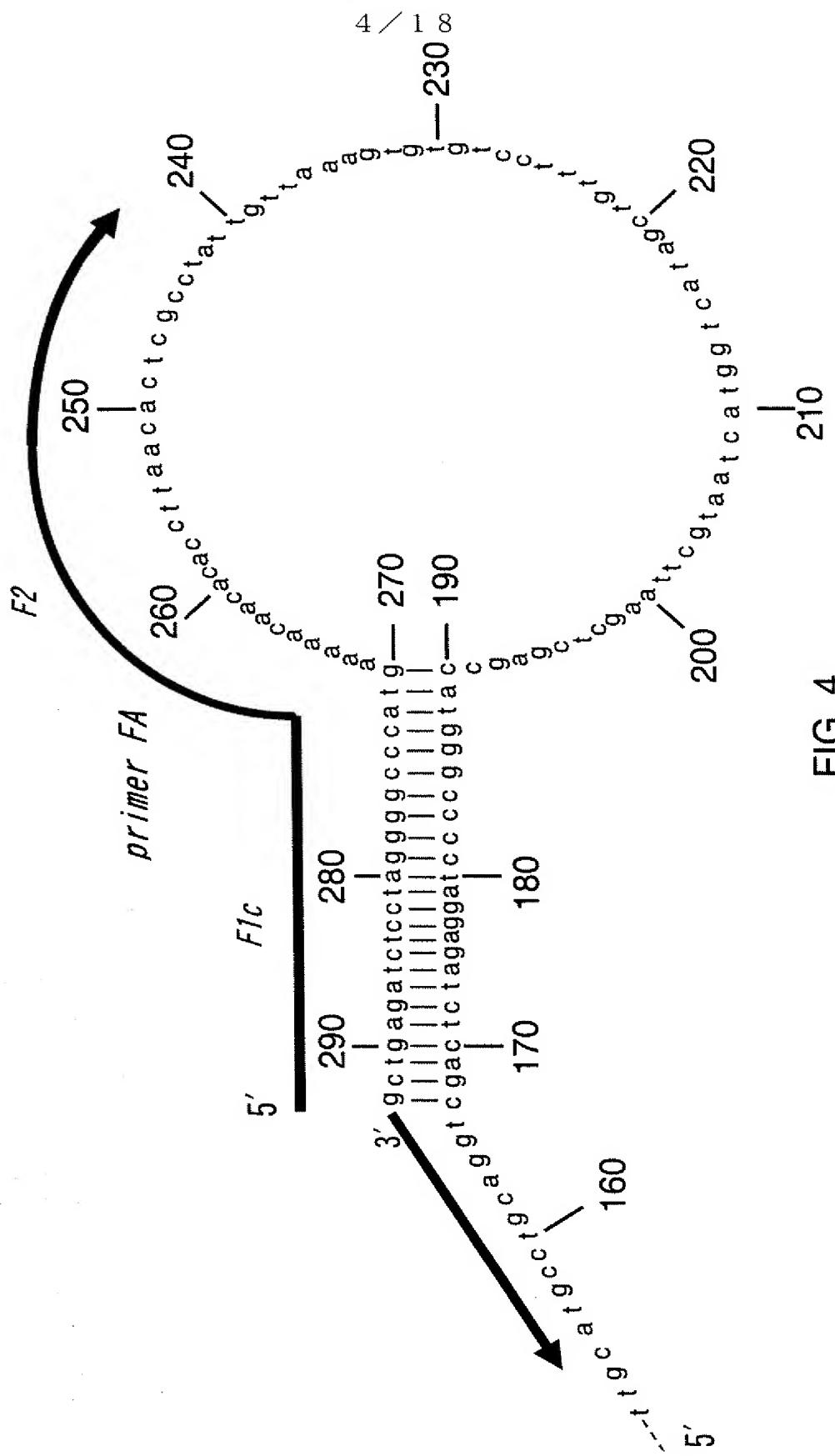
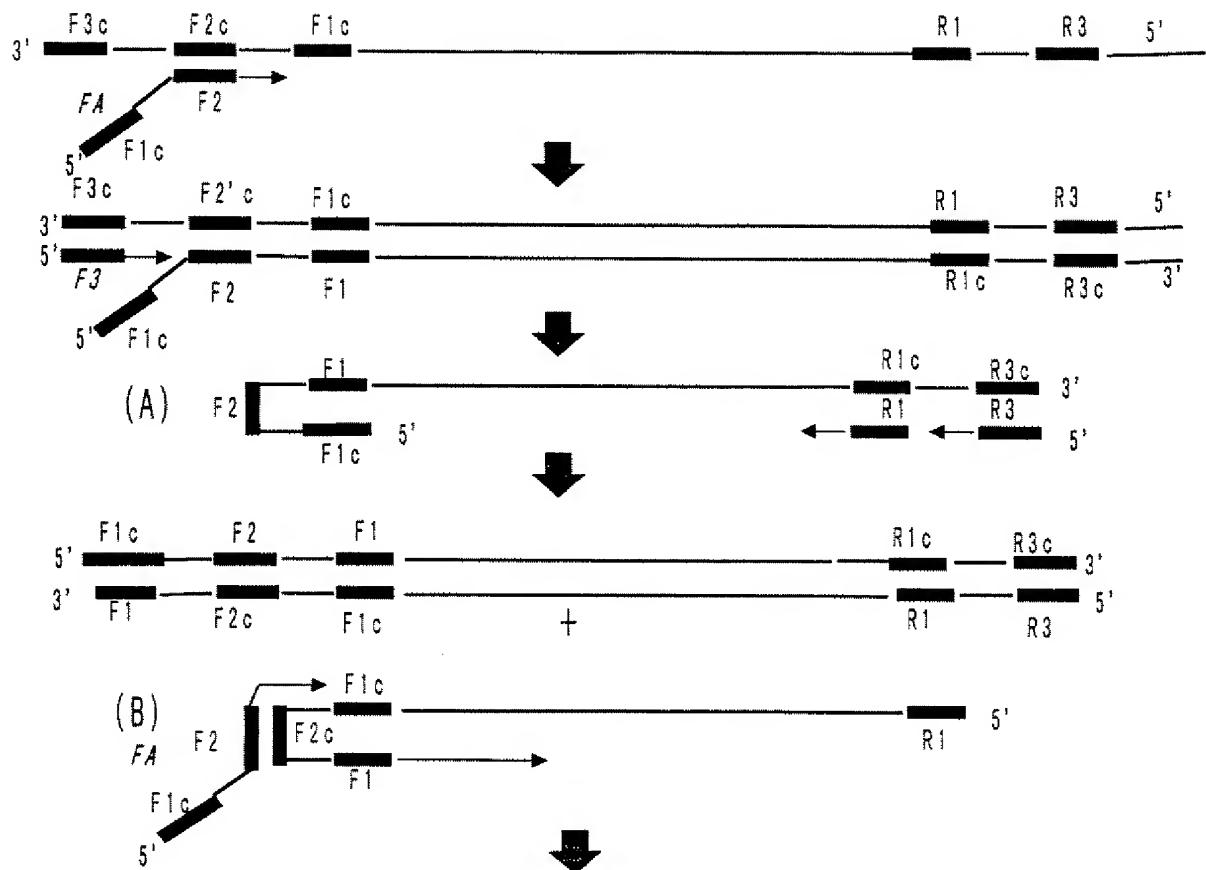


FIG. 4

REPLACEMENT SHEET

5 / 1 8

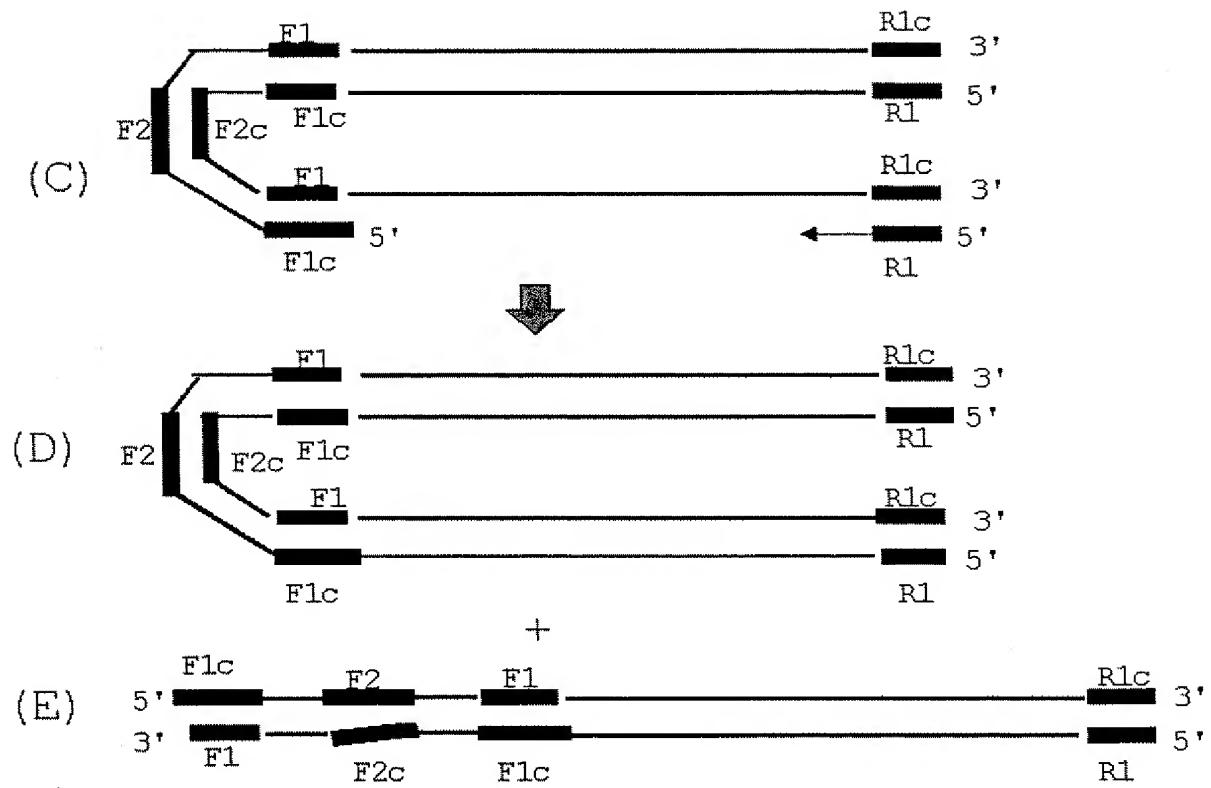
Fig. 5



REPLACEMENT SHEET

6 / 1 8

Fig. 6



REPLACEMENT SHEET

7 / 1 8

Fig. 7

6001 GOGCCAAATA CGCAAACCGC CTCTCCOCGC GCGTTGGCCG ATTCAATTAAAT GCAGCTGGCA

6061 CGACAGGTTT COCGACTGGA AAGCGGGCAG TGAGCGAAC GCAATTAAATG TGAGTTAGCT

M13F3 → M13F2

6121 CACTCATTAG GCACOCCAGG CTTTACACTT TATGCTTCG GCTCGTATGT TGTGTGGAAT

6181 TGTGAGCGGA TAACAATTTC ACACAGGAAA CAGCTATGAC CATGATTACG AATTGAGCT

M13F1c

6241 CGGTACOCGG GGATOCTCTA GAGTCGACCT GCAGGCATGC AAGCTTGGCA CTGGCOGTOG

M13R1c

6301 TTTTACAACG TOGTGACTGG GAAAACCTG GCGTTACCCA ACTTAATCGC CTTGCAGCAC

M13R2

M13R3

6361 ATCCCCCTT CGCCAGCTGG CGTAATAGCG AAGAGGOCG CACCGATCGC CCTTCOCAAC

6421 AGTTGCGCAG CCTGAATGGC GAATGGCGCT TTGCGTGGTT TCCGGCAOCA GAAGCGGTGC

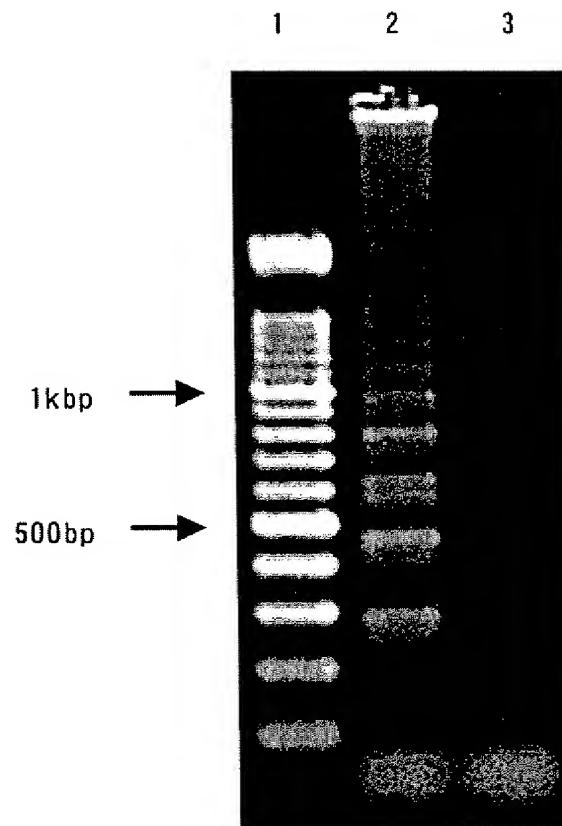
6481 CGGAAAGCTG GCTGGAGTGC GATCTTCCTG AGGCGATAC GGTGTCGTC CCCTCAAAC

6541 GGCAGATGCA CGGTTACGAT GCGCCCATCT ACACCAACGT AACCTATGCC ATTACGGTCA

REPLACEMENT
SHEET

8 / 1 8

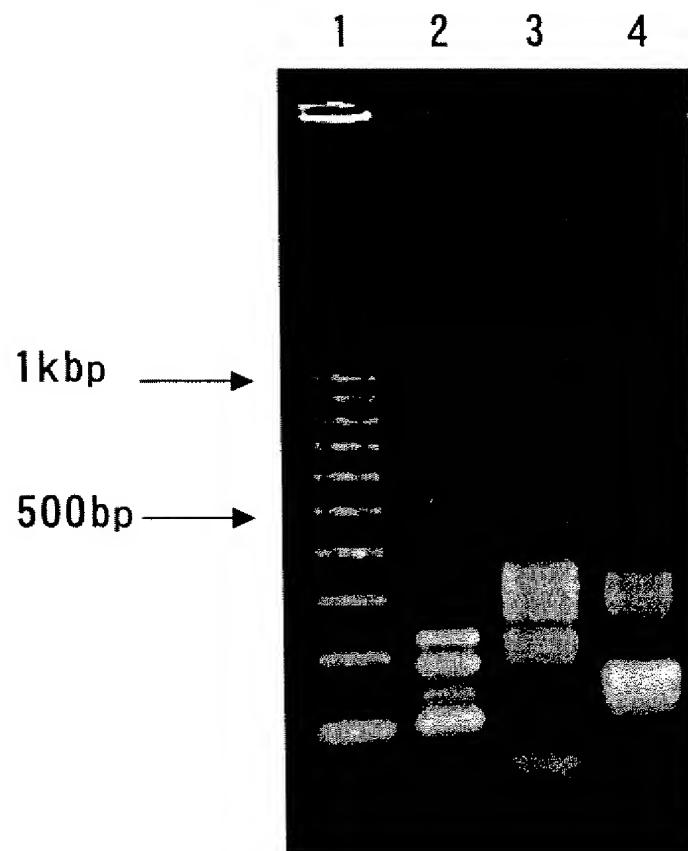
Fig. 8



REPLACEMENT
SHEET

9 / 1 8

Fig. 9

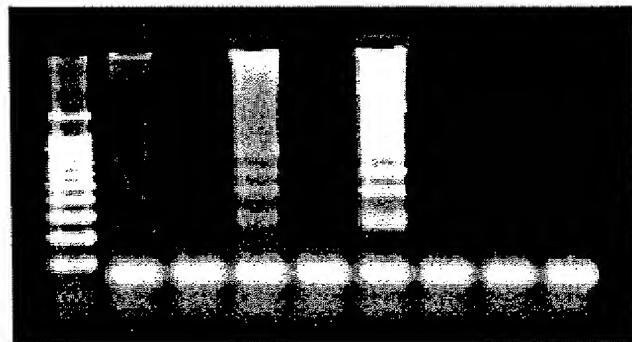


REPLACEMENT
SHEET

1 0 / 1 8

Fig. 10

0 0.5 1 2M
-21 N -21 N -21 N -21 N



**REPLACEMENT
SHEET**

1 1 / 1 8

Fig. 11

1 CTCCTTGACA CCGCCTCTGC TCTGTATCGG GAGGCTTAG AGTCTCGGA ACATTGTTCA

61 CCTCACCATA CAGCACTCAG GCAAGCTATT CTGTGTTGGG GTGAGTTAAT GAATCTGGCC

121 ACCTGGGTGG GAAGTAATTG GGAAGACCCA GCATCCAGGG AATTAGTAGT CAGCTATGTC

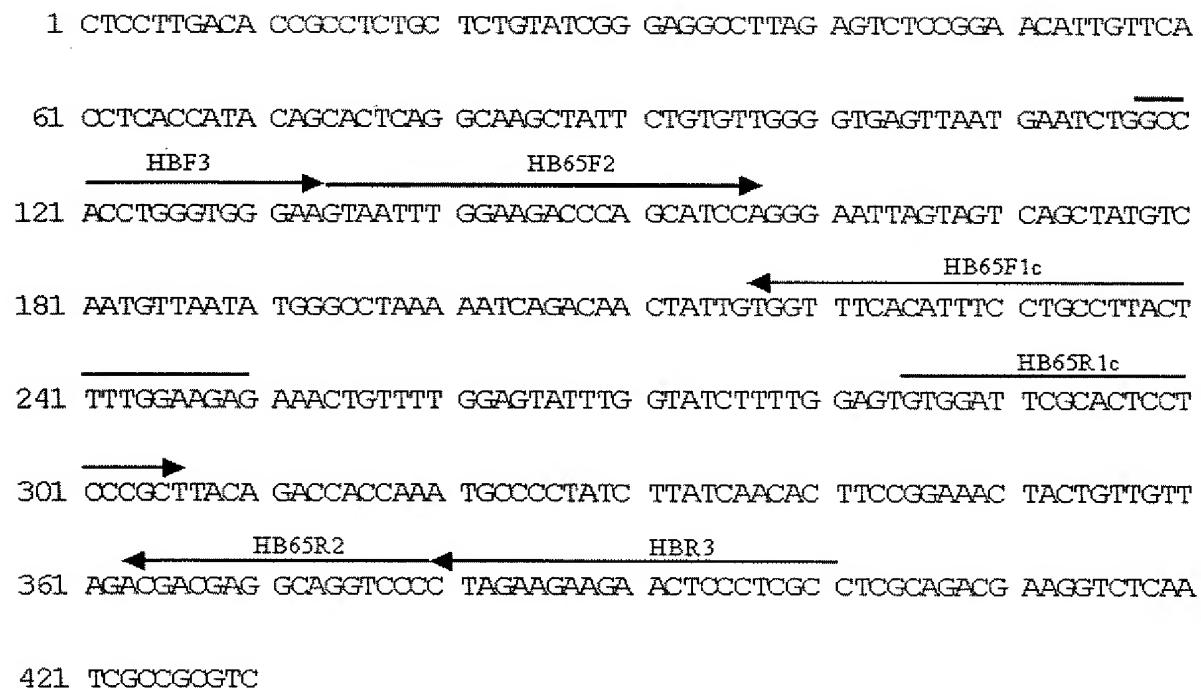
181 AATGTTAATA TGGGCTAAA AATCAGACAA CTATTGTGGT TTACACATTTTC CTGCCTTACT

241 TTTGGAAGAG AACTGTTTT GGAGTATTG GTATCTTTG GAGTGTGGAT TCGCACTCCT

301 CCCGCTTACA GACCACAAA TGCCCTATC TTATCAACAC TTCCGGAAAC TACTGTTGTT

361 AGAOGAOGAG GCAGGTCCCC TAGAAGAAGA ACTOCCTCGC CTCGCAGACG AAGGTCTCAA

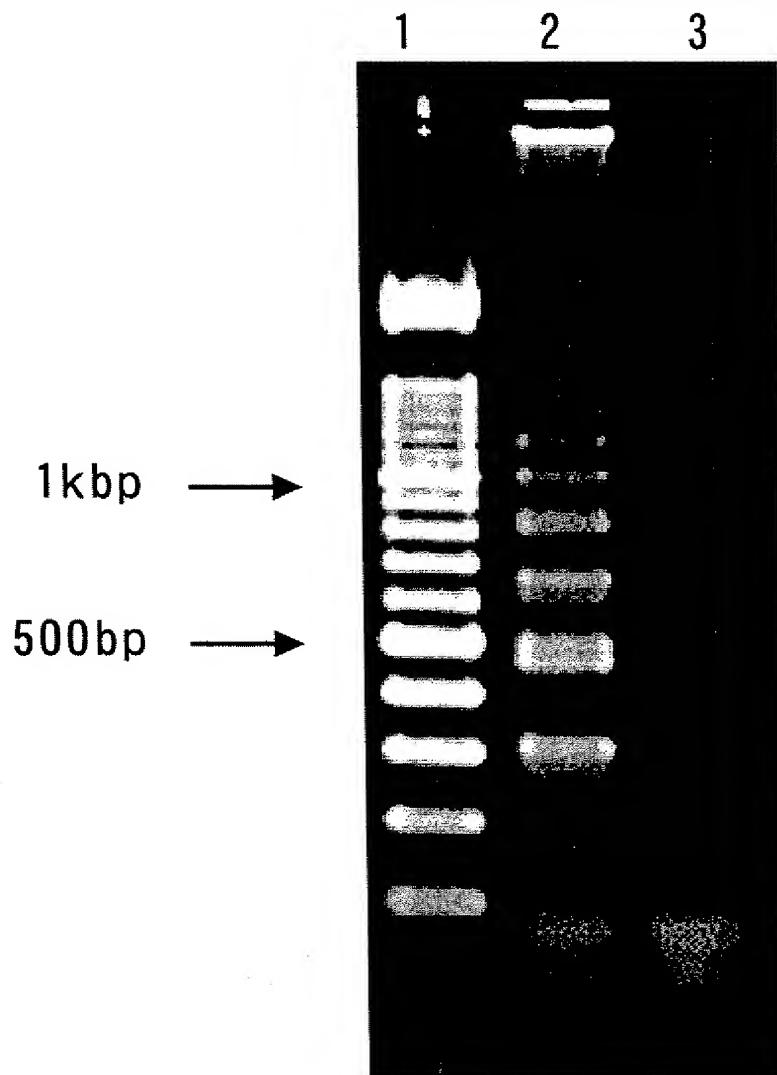
421 TCGOCGOGTC



REPLACEMENT
SHEET

1 2 / 1 8

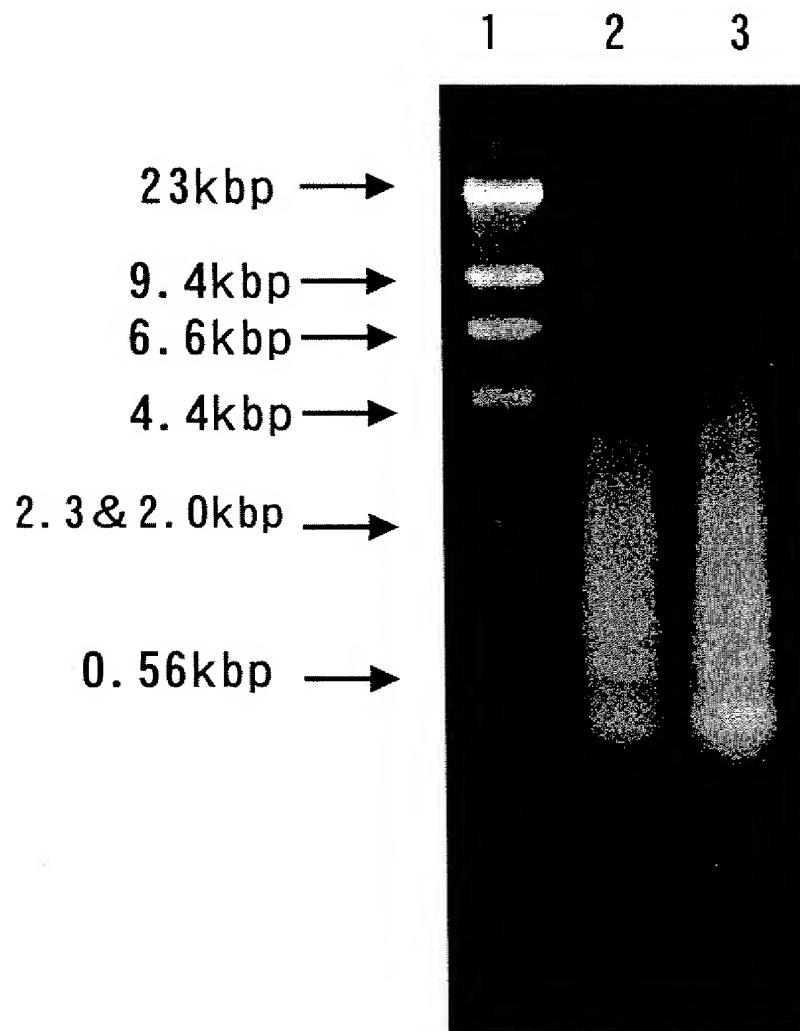
Fig. 12



REPLACEMENT
SHEET

1 3 / 1 8

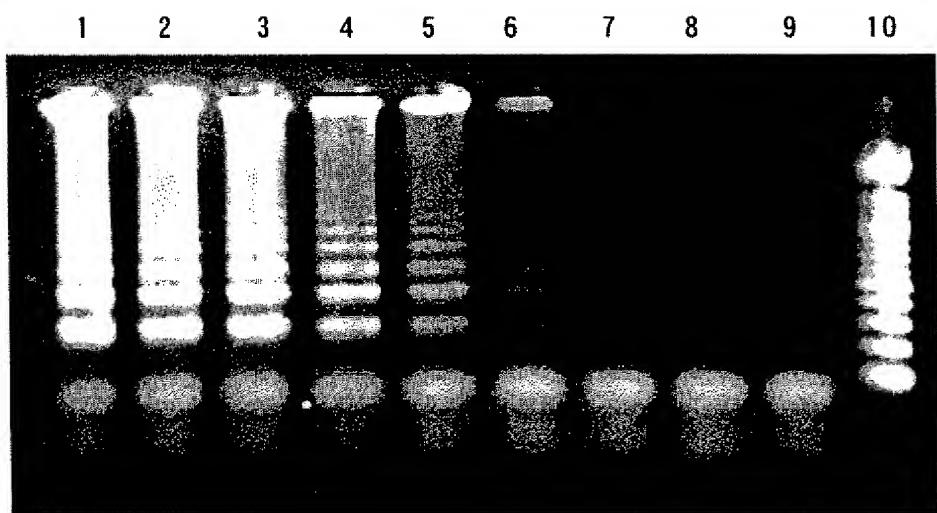
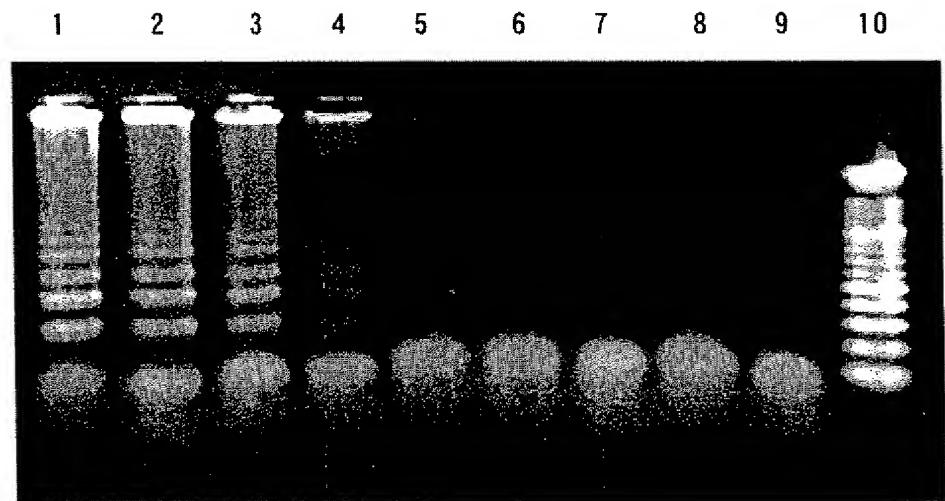
Fig. 13



**REPLACEMENT
SHEET**

1 4 / 1 8

Fig. 14



REPLACEMENT
SHEET

15 / 18

Fig. 15

6001 GCGCCCAATA CGCAAACCGC CTCTCCCCGC GCGTTGGCCG ATTCAATTAAAT GCAGCTGGCA

6061 CGACAGGTTT CCCGACTGGA AAGCGGGCAG TGAGCGCAAC GCAATTAAATG TGAGTTAGCT
M13F3 → M13F2 d4

6121 CACTCATTAG GCACCCCCAGG CTTTACACTT TATGCTTCCG GCTCGTATGT TGTGTGGAAT

6181 TGTGAGCGGA TAACAATTTC ACACAGGAAA CAGCTATGAC CATGATTACG AATTCGAGCT
M13F1c d4 ← →

6241 CGGTACCCGG GGATCCTCTA GAGTCGACCT GCAGGCATGC AAGCTTGGCA CTGGCCGTG
M13R1c d4 ← A →

6301 TTTTACAACG TCGTGACTGG GAAAACCTG GCGTTACCCA ACTTAATCGC CTTGCAGCAC
M13R2 d4 ← → M13R3

6361 ATCCCCCTTT CGCCAGCTGG CGTAATAGCG AAGAGGCCCG CACCGATCGC CCTTCCCCAAC

6421 AGTTGGCGCAG CCTGAATGGC GAATGGCGCT TTGCCTGGTT TCCGGCACCA GAAGCGGTGC

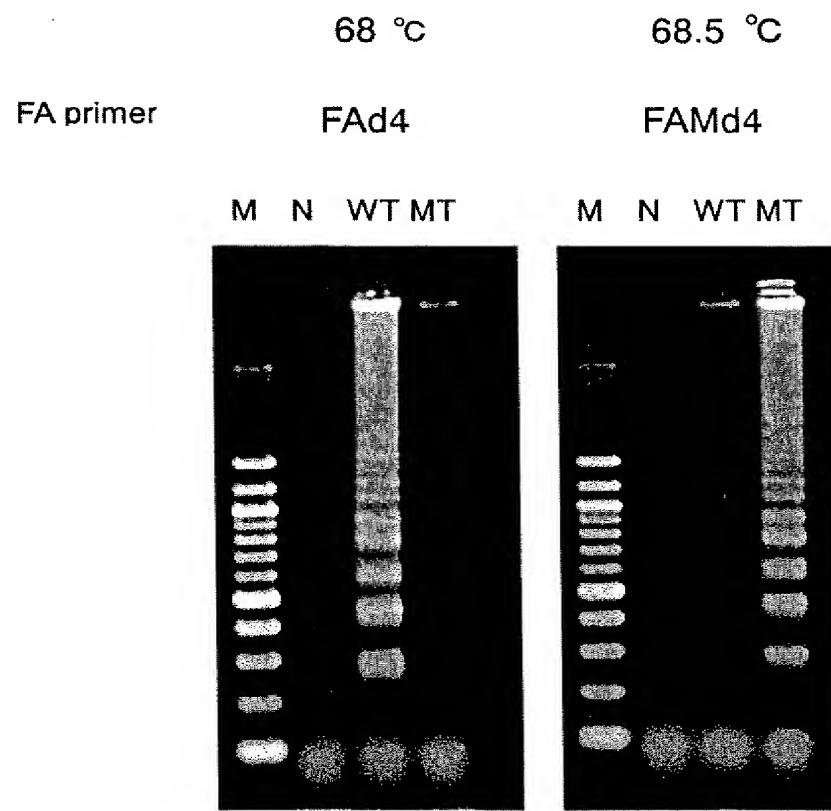
6481 CGGAAAGCTG GCTGGAGTGC GATCTTCCTG AGGCCGATAC GGTCGTCGTC CCCTCAAAC

6541 GGCAGATGCA CGGTTACGAT GCGCCCCATCT ACACCAACGT AACCTATCCC ATTACGGTCA

REPLACEMENT
SHEET

1 6 / 1 8

Fig. 16



**REPLACEMENT
SHEET**

17 / 18

Fig. 17

1 ATTCCGCCGG AGAGCTGTGT CACCATGTGG GTCCCGGTTG TCTTCCTCAC CCTGTCCGTG

61 ACGTGGATTG GTGCTGCACC CCTCATCCTG TCTCGGATTG TGGGAGGCTG GGAGTGCAG
PSAF3 PSAF2

121 AAGCATTCCC AACCCCTGGCA GGTGCTTGTG GCCTCTCGTG GCAGGGCAGT CTGCGGCCGT
PSAF1c

181 GTTCTGGTGC ACCCCCAGTG GGTCCCTACA GCTGCCACT GCATCAGGAA CAAAACCGTG
Sau3AI PSAR1c PSAR2

241 ATCTTGCTGG GTCGGCACAG CCTGTTTCAT CCTGAAGACA CAGGCCAGGT ATTCAGGTC
PSAR3

301 AGCCACAGCT TCCCCACACCC GCTCTACGAT ATGAGCCTCC TGAAGAATCG ATTCCCTCAGG

361 CCAGGTGATG ACTCCAGCCA CGACCTCATG CTGCTCCGCC TGTCAGAGCC TGCCGAGCTC

421 ACGGATGCTG TGAAGGTCAT GGACCTGCC ACCCAGGAGC CAGCACTGGG GACCACCTGC

481 TACGCCTCAG GCTGGGGCAG CATTGAACCA GAGGAGT

REPLACEMENT
SHEET

1 8 / 1 8

Fig. 18

